

**Abstract of the Disclosure**

Each routing unit of the network routing apparatus includes: one or a plurality of transfer means each for extracting a packet header of a packet received from a line, and one or a plurality of search means each for extracting output destination information using the packet header received from each transfer means; wherein, in each routing unit, one search means is connected to one transfer means, or a plurality of transfer means are connected to one search means, or a plurality of search means are connected to one transfer means, or a plurality of search means and a plurality of transfer means are connected to one another.